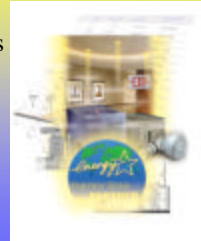


## Buying Energy Efficient Products

Donald Mauritz  
Lawrence Berkeley National Laboratory  
August 19, 2003

## Why Buy Energy Efficient Products?

- Policies
- Energy and Cost Savings
- Environmental Impacts
- Market Leadership



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2

## Policies

- Energy Policy Act of 1992
- Executive Order 13123
- Executive Order 13221
- Federal Acquisition Regulation
- Pending Energy Bill

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3

## Energy and Cost Savings

### Packaged Air Conditioner

- Energy Savings: 3,800 kWh/year
- Energy Cost Savings: \$220/year
- Lifetime Energy Cost Savings: \$2,200
  - Using NIST 2003 Discount Rate of 3.3%
- Estimated Cost Increase: \$700 to \$750
- Payback: Approximately 3 years

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4

## Environmental Impacts

- Pollution prevented over the efficient air conditioner's lifetime:
  - 93,000 pounds of CO<sub>2</sub>
  - 125,000 grams of NO<sub>x</sub>
  - 280,000 grams of SO<sub>2</sub>
- This is that same amount of CO<sub>2</sub> generated by 8 cars in one year

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5

## Market Leadership

- Federal government spends between \$10 and \$20 billion per year on energy using products
- Purchasing efficient products will:
  - Increase market presence
  - Lower prices
  - Set example

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6



## What are Energy Efficient Products?

- FEMP's *Recommendations*
- ENERGY STAR® label
- Low Standby Power

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7



## Product Energy Efficiency Recommendations

- Office Equipment
- Residential Appliances & Equipment
- Commercial Appliances & Equipment
- Lighting Technologies
- Construction Products
- Water Using Technologies

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8



## ENERGY STAR

### Symbol for energy efficiency

- Office Equipment
- Heating & Cooling Equipment
- Residential Appliances
- Home Electronics
- Lighting
- Homes



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9



## Low Standby Power

- Standby Power Data Center
  - <http://oahu.lbl.gov/>
- Some ENERGY STAR labeled products have low standby power requirements

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10



## Where to Buy Energy Efficient Products

- **General Services Administration**
  - Environmental Products and Services Guide
  - *GSA Advantage* ([www.gsaadvantage.gov](http://www.gsaadvantage.gov))
- **Defense Logistics Agency DoD EMALL** ([www.emall.dla.mil](http://www.emall.dla.mil))
  - Defense Supply Center Philadelphia (DSCP) at 800-DLA-BULB
- **Commercial Sources**

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11



## For More Information

- Visit these web sites:
  - [www.eere.energy.gov/femp/procurement](http://www.eere.energy.gov/femp/procurement)
  - [www.energystar.gov](http://www.energystar.gov)
  - [http://www.eere.energy.gov/femp/procurement/standby\\_power](http://www.eere.energy.gov/femp/procurement/standby_power)
- Call the FEMP Hotline at 800-363-3732
- Visit us at the Big Booth Island located at 303-305-307 and 402-404-406

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12